

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: INVUE

Report Number: P181247

Luminaire Tested: **ICM-E03-LED-E1-T2**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181247
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33671)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICM-E03-LED-E1-T2
Description: ICON SITE MEDIUM LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 2
Light Source: (63) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8550.4 lumens
Efficiency: N/A
Efficacy: 113.7 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

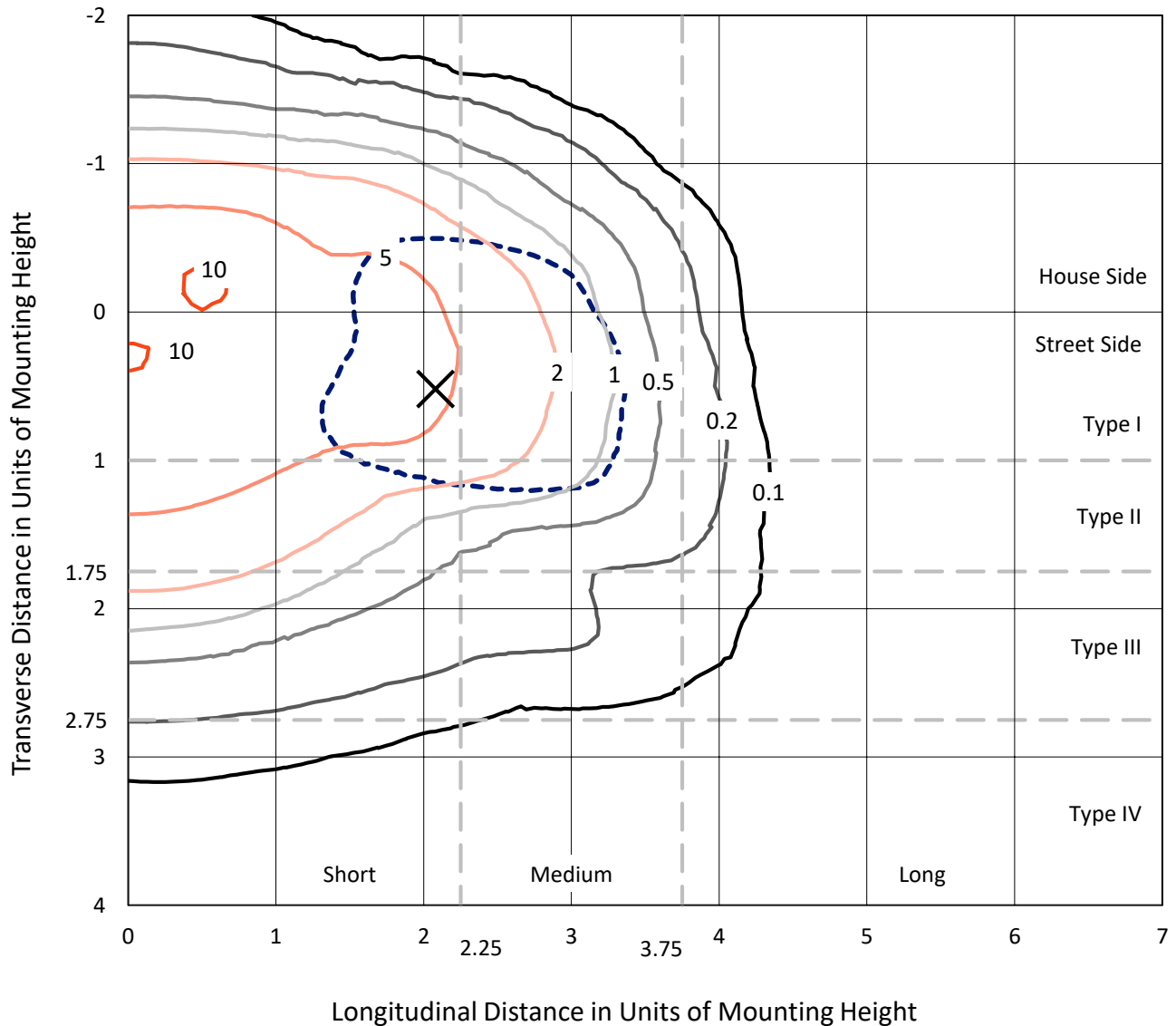
Input Watts (W): 75.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

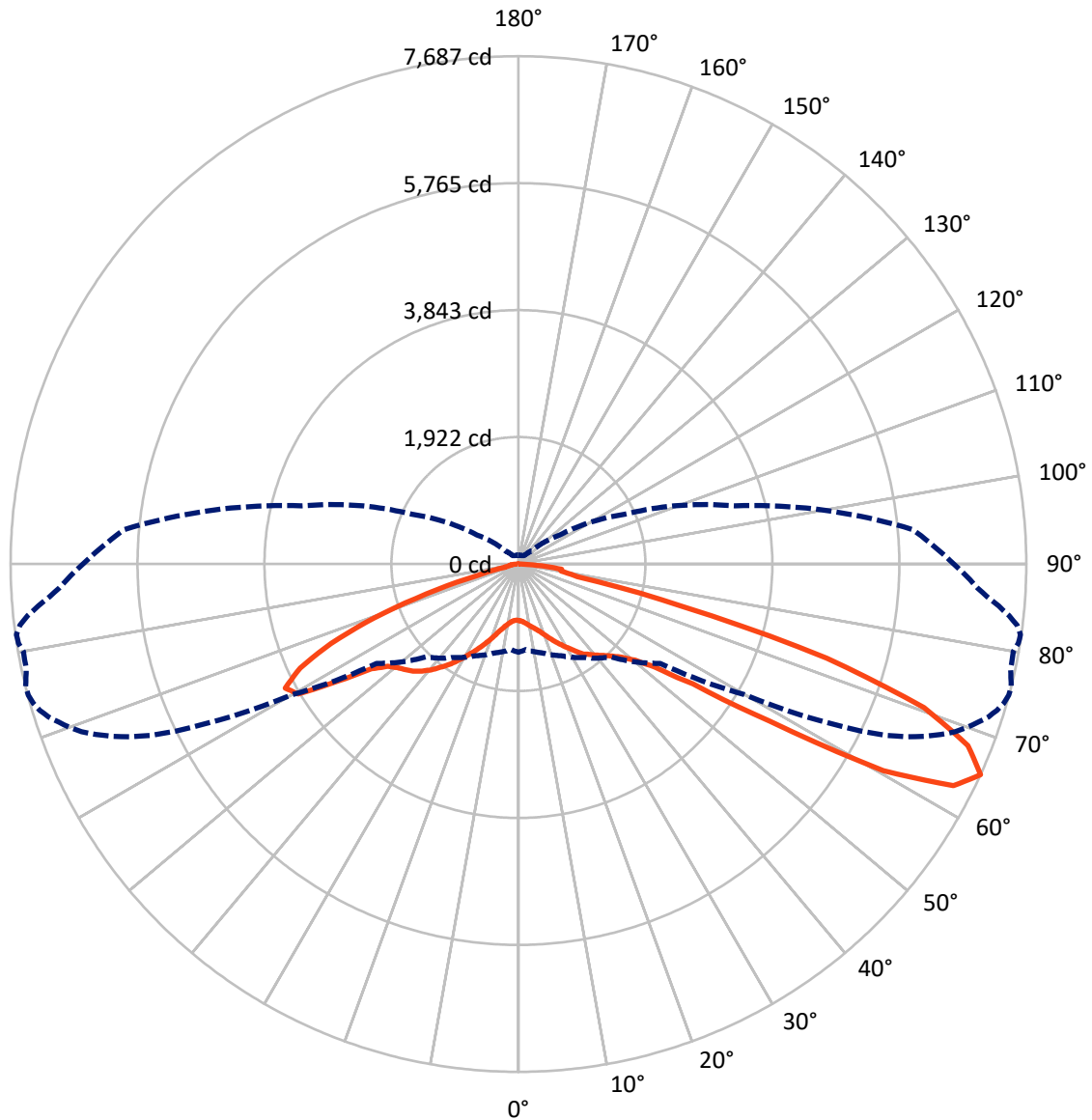
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.4 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2994.1	0.0	2994.1
	% Fixture	35.0	0.0	35.0
Street Side	Lumens	5556.2	0.0	5556.2
	% Fixture	65.0	0.0	65.0
Total	Lumens	8550.4	0.0	8550.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.6	1.0
10°-20°	294.0	3.4
20°-30°	577.7	6.8
30°-40°	959.9	11.2
40°-50°	1410.4	16.5
50°-60°	1952.7	22.8
60°-70°	2330.7	27.3
70°-80°	824.2	9.6
80°-90°	115.2	1.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	8550.4	100.0
0°-180°	8550.4	100.0

Coefficient of Utilization



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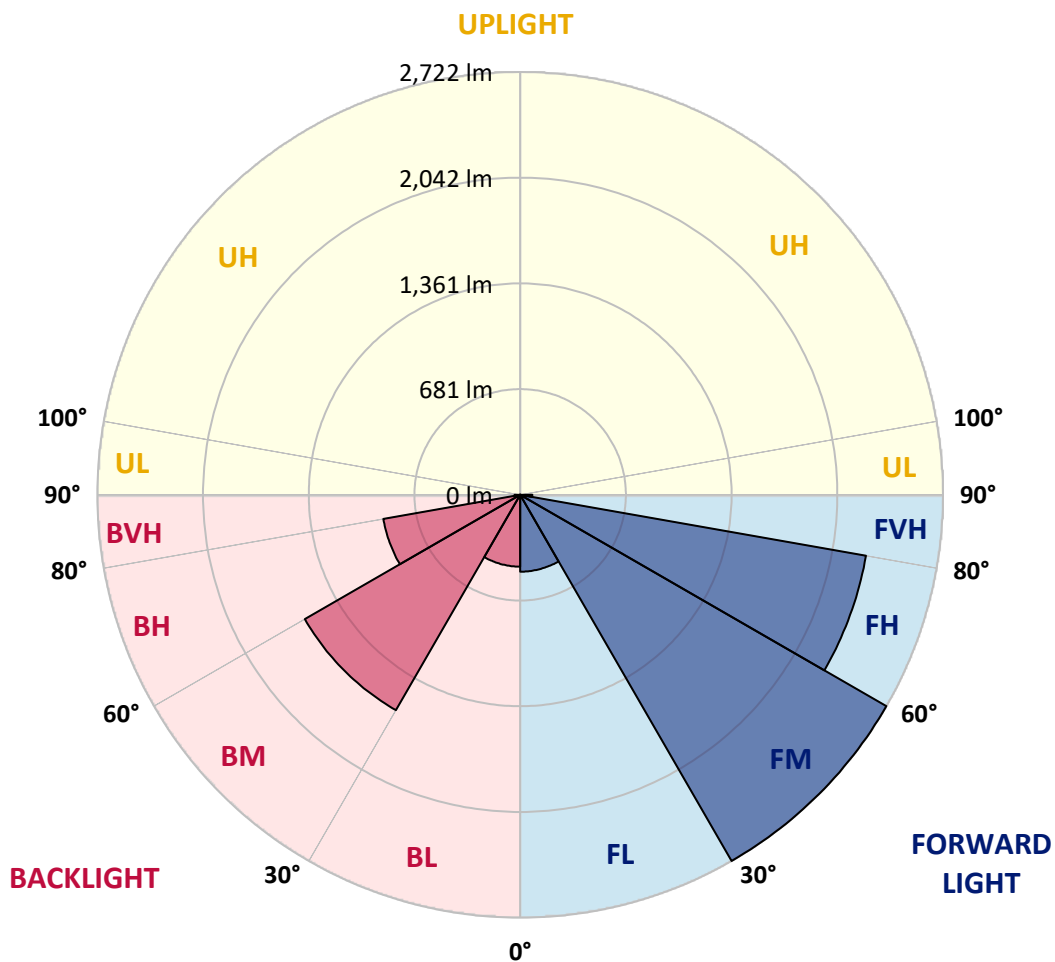
CATALOG NUMBER: ICM-E03-LED-E1-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	494.7	5.8			
FM	(30°-60°)	2722.2	31.8			
FH	(60°-80°)	2260.6	26.4			G2/5000
FVH	(80°-90°)	78.7	0.9			G1/100
BL	(0°-30°)	462.6	5.4	B1/500		
BM	(30°-60°)	1600.8	18.7	B2/2500		
BH	(60°-80°)	894.3	10.5	B2/1000		G2/1000
BVH	(80°-90°)	36.4	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	854.9	854.9	854.9	854.9	854.9	854.9	854.9	854.9	854.9	854.9	854.9
2.5°	892.1	893.0	891.2	890.2	887.4	882.8	879.1	875.4	875.4	875.4	872.6
5°	931.2	933.0	929.3	926.5	918.1	913.5	907.0	902.3	900.5	899.5	896.7
7.5°	980.5	977.7	972.1	970.2	963.7	953.5	941.4	932.1	932.1	931.2	932.1
10°	1029.8	1022.3	1019.5	1016.8	1006.5	993.5	979.5	969.3	968.4	967.4	964.7
12.5°	1079.1	1076.3	1073.5	1063.3	1053.0	1032.6	1016.8	1006.5	1005.6	1006.5	1002.8
15°	1144.2	1137.7	1134.9	1117.2	1094.9	1072.6	1053.0	1043.7	1040.9	1041.9	1039.1
17.5°	1194.4	1194.4	1187.9	1168.4	1139.5	1108.8	1088.4	1082.8	1081.9	1081.9	1082.8
20°	1234.4	1233.5	1227.0	1211.2	1176.8	1146.1	1135.8	1134.0	1133.0	1133.0	1135.8
22.5°	1256.8	1254.9	1252.1	1234.4	1207.4	1187.0	1187.9	1193.5	1195.4	1197.2	1200.9
25°	1267.9	1265.1	1264.2	1252.1	1232.6	1229.8	1246.5	1261.4	1265.1	1268.8	1273.5
27.5°	1286.5	1281.9	1283.7	1279.1	1274.4	1282.8	1317.2	1333.0	1335.8	1340.5	1343.3
30°	1337.7	1335.8	1343.3	1345.1	1348.8	1360.9	1392.6	1407.5	1414.0	1414.0	1427.0
32.5°	1435.4	1436.3	1438.1	1457.7	1464.2	1472.6	1489.3	1501.4	1502.3	1503.3	1515.4
35°	1566.5	1572.1	1587.9	1604.7	1620.5	1619.5	1609.3	1615.8	1611.2	1616.8	1617.7
37.5°	1732.1	1724.7	1747.9	1786.1	1810.2	1803.7	1758.2	1728.4	1736.8	1733.0	1730.2
40°	1859.5	1867.9	1912.6	1962.8	1981.4	2001.9	1942.3	1891.2	1883.7	1869.8	1861.4
42.5°	2035.4	2036.3	2072.6	2109.8	2163.7	2208.4	2170.2	2096.8	2074.4	2057.7	2021.4
45°	2198.2	2195.4	2225.1	2270.7	2334.9	2399.1	2413.0	2333.0	2324.7	2294.9	2247.5
47.5°	2307.0	2303.3	2323.7	2383.3	2487.5	2592.6	2650.2	2626.1	2610.2	2598.2	2523.7
50°	2380.5	2373.0	2396.3	2459.5	2575.8	2737.7	2888.4	2908.9	2902.3	2902.3	2854.9
52.5°	2435.4	2435.4	2452.1	2503.3	2621.4	2823.3	3093.0	3196.3	3204.7	3214.0	3211.2
55°	2404.7	2409.3	2451.2	2525.6	2650.2	2882.8	3262.3	3488.4	3534.9	3574.0	3618.6
57.5°	2299.5	2315.4	2371.2	2493.0	2657.7	2927.5	3450.3	3897.7	4028.9	4142.4	4319.1
60°	2146.1	2166.5	2247.5	2402.8	2602.8	2854.9	3516.3	4243.7	4452.1	4699.6	5161.0
62.5°	1882.8	1903.3	1982.3	2137.7	2308.9	2576.8	3242.8	4294.9	4627.9	4978.6	5676.3
65°	1334.0	1301.4	1392.6	1532.1	1728.4	1987.9	2620.5	3951.7	4430.7	4906.1	5767.5
67.5°	743.3	740.5	796.3	900.5	1088.4	1367.5	1805.6	3030.7	3471.6	4010.3	5067.9
70°	512.6	518.1	553.5	666.1	821.4	1062.3	1286.5	1903.3	2220.5	2586.1	3626.1
72.5°	360.0	372.1	391.6	458.6	617.7	894.9	1314.4	1137.7	1295.8	1545.1	2180.5
75°	211.2	219.5	233.5	266.0	351.6	598.1	1360.9	1000.0	1000.0	1058.6	1319.1
77.5°	130.2	130.2	138.6	151.6	187.0	293.0	969.3	1123.7	1092.1	1058.6	1061.4
80°	67.0	71.6	83.7	90.2	104.2	134.0	435.4	1048.4	1149.8	1217.7	1170.2
82.5°	30.7	34.4	51.2	54.9	60.5	70.7	149.8	596.3	799.1	1052.1	1314.4
85°	15.8	15.8	27.0	33.5	36.3	32.6	54.9	240.9	364.7	556.3	870.7
87.5°	2.8	2.8	4.7	5.6	8.4	7.4	9.3	14.0	23.3	25.1	26.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	854.9	854.9	854.9	854.9	854.9	854.9	854.9	854.9	854.9	854.9	854.9
2.5°	871.6	872.6	871.6	870.7	868.8	868.8	868.8	867.9	867.9	867.9	867.0
5°	896.7	893.0	894.0	892.1	891.2	890.2	891.2	889.3	887.4	888.4	887.4
7.5°	928.4	926.5	922.8	922.8	921.9	920.0	920.0	917.2	916.3	914.4	913.5
10°	963.7	959.1	960.9	959.1	960.0	956.3	954.4	952.6	950.7	950.7	951.6
12.5°	1000.0	999.1	996.3	994.4	994.4	991.6	992.6	991.6	988.8	987.9	985.1
15°	1037.2	1037.2	1034.4	1035.4	1034.4	1032.6	1030.7	1030.7	1028.8	1027.0	1027.9
17.5°	1080.9	1080.9	1080.9	1080.9	1081.9	1079.1	1080.0	1078.1	1076.3	1080.0	1080.0
20°	1137.7	1141.4	1141.4	1140.5	1145.1	1142.3	1141.4	1146.1	1141.4	1147.9	1147.0
22.5°	1202.8	1206.5	1206.5	1210.2	1211.2	1214.0	1215.8	1214.0	1217.7	1221.4	1221.4
25°	1275.4	1279.1	1281.9	1287.4	1290.2	1288.4	1289.3	1294.0	1295.8	1299.5	1303.3
27.5°	1351.6	1352.6	1356.3	1362.8	1367.5	1369.3	1370.2	1377.7	1378.6	1380.5	1384.2
30°	1426.1	1435.4	1433.5	1441.9	1444.7	1447.5	1453.0	1455.8	1462.3	1466.1	1466.1
32.5°	1513.5	1511.6	1519.1	1525.6	1530.2	1534.9	1539.5	1543.3	1547.0	1548.8	1558.1
35°	1622.3	1626.1	1626.1	1627.0	1638.1	1639.1	1642.8	1651.2	1654.0	1659.5	1663.3
37.5°	1730.2	1723.7	1722.8	1722.8	1719.1	1721.9	1722.8	1723.7	1727.5	1728.4	1732.1
40°	1851.2	1842.8	1835.4	1830.7	1823.3	1813.0	1811.2	1806.5	1809.3	1808.4	1809.3
42.5°	2016.8	1993.5	1975.8	1962.8	1947.9	1936.8	1928.4	1916.3	1907.9	1897.7	1895.8
45°	2227.9	2184.2	2154.4	2133.0	2111.6	2080.9	2063.3	2044.7	2027.9	2011.2	1997.2
47.5°	2505.1	2458.6	2411.2	2372.1	2338.6	2289.3	2239.1	2211.2	2178.6	2149.8	2129.3
50°	2831.6	2775.8	2753.5	2698.6	2656.8	2582.3	2520.0	2474.4	2409.3	2365.6	2327.5
52.5°	3165.6	3151.6	3139.6	3093.0	3043.7	3000.9	2946.1	2866.1	2800.0	2749.8	2671.6
55°	3620.5	3627.0	3622.3	3597.2	3579.6	3538.6	3516.3	3446.5	3416.8	3344.2	3262.3
57.5°	4386.1	4438.2	4504.2	4530.3	4565.6	4532.1	4571.2	4618.6	4500.5	4541.4	4467.9
60°	5363.8	5602.8	5745.2	5920.0	6034.5	6194.5	6223.3	6265.2	6253.1	6276.3	6323.8
62.5°	5961.0	6244.7	6517.2	6715.4	6927.5	7044.7	7186.1	7284.7	7387.0	7455.9	7436.3
65°	6136.8	6428.9	6676.3	6893.1	7082.8	7226.1	7357.3	7481.0	7574.9	7641.0	7680.0
67.5°	5491.2	5872.6	6133.1	6387.0	6631.7	6782.4	6892.1	7012.1	7149.8	7264.2	7286.6
70°	4132.1	4704.2	5073.5	5377.7	5665.2	5867.9	6021.4	6133.1	6240.0	6321.9	6411.2
72.5°	2584.2	3084.7	3507.0	3901.4	4206.5	4485.6	4614.9	4862.4	4829.8	4892.1	4959.1
75°	1548.8	1792.6	2025.1	2303.3	2463.3	2695.8	2737.7	2778.6	2757.2	2687.5	2739.6
77.5°	1076.3	1116.3	1114.4	1098.6	1081.9	1040.9	987.9	959.1	939.5	911.6	922.8
80°	1082.8	996.3	864.2	726.5	600.0	516.3	482.8	482.8	517.2	566.5	615.8
82.5°	1294.0	1201.9	1071.6	896.7	710.7	578.6	490.2	454.9	461.4	511.6	574.9
85°	872.6	893.0	783.3	716.3	567.4	441.9	370.2	300.5	266.0	274.4	310.7
87.5°	31.6	38.1	14.0	18.6	13.0	11.2	11.2	12.1	8.4	10.2	9.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	854.9	854.9	854.9	854.9	854.9	854.9	854.9	854.9	854.9	854.9	854.9
2.5°	866.1	865.1	865.1	863.3	863.3	862.3	862.3	861.4	860.5	860.5	859.5
5°	886.5	885.6	883.7	882.8	880.9	880.9	880.0	878.1	878.1	876.3	875.4
7.5°	915.4	913.5	911.6	910.7	909.8	907.0	907.0	905.1	905.1	903.3	902.3
10°	949.8	947.9	946.1	947.0	944.2	943.3	941.4	941.4	938.6	937.7	937.7
12.5°	987.0	986.1	986.1	983.3	982.3	981.4	977.7	977.7	977.7	975.8	976.8
15°	1027.0	1027.9	1025.1	1027.9	1027.0	1024.2	1024.2	1024.2	1020.5	1025.1	1021.4
17.5°	1080.9	1083.7	1081.9	1082.8	1080.9	1080.9	1081.9	1080.9	1082.8	1082.8	1088.4
20°	1147.9	1148.8	1153.5	1151.6	1151.6	1150.7	1152.6	1153.5	1157.2	1155.4	1159.1
22.5°	1221.4	1226.1	1227.0	1230.7	1230.7	1229.8	1231.6	1235.4	1237.2	1240.0	1239.1
25°	1305.1	1307.9	1311.6	1307.0	1314.4	1314.4	1316.3	1320.9	1321.9	1321.9	1328.4
27.5°	1383.3	1390.7	1391.6	1396.3	1393.5	1395.4	1401.9	1404.7	1408.4	1408.4	1410.2
30°	1471.6	1474.4	1476.3	1481.9	1480.9	1481.9	1482.8	1487.5	1487.5	1492.1	1496.8
32.5°	1562.8	1564.7	1566.5	1572.1	1574.0	1577.7	1575.8	1579.5	1584.2	1585.1	1587.9
35°	1671.6	1673.5	1675.4	1683.7	1684.7	1691.2	1693.0	1691.2	1698.6	1694.0	1698.6
37.5°	1734.9	1743.3	1745.1	1750.7	1748.8	1753.5	1756.3	1760.0	1761.9	1765.6	1773.0
40°	1812.1	1814.9	1820.5	1823.3	1827.0	1827.9	1831.6	1834.4	1837.2	1845.6	1854.0
42.5°	1891.2	1894.9	1897.7	1901.4	1906.1	1909.8	1912.6	1920.9	1922.8	1928.4	1944.2
45°	1987.0	1985.1	1986.1	1987.0	1988.8	1993.5	2001.9	2010.2	2015.8	2028.8	2041.9
47.5°	2106.1	2094.0	2089.3	2081.9	2083.7	2094.0	2095.8	2109.8	2120.9	2133.0	2148.9
50°	2286.5	2254.0	2234.4	2214.9	2213.0	2218.6	2226.1	2240.9	2254.0	2269.8	2292.1
52.5°	2589.8	2527.5	2488.4	2434.4	2419.5	2416.8	2411.2	2419.5	2423.3	2444.7	2486.5
55°	3203.7	3088.4	3014.0	2930.3	2852.1	2828.9	2784.2	2793.5	2784.2	2797.2	2859.6
57.5°	4485.6	4393.5	4321.0	4214.0	4080.0	3937.7	3902.3	3756.3	3785.1	3868.9	3814.9
60°	6347.0	6313.5	6261.4	6210.3	6027.0	5923.8	5755.4	5736.8	5618.6	5619.6	5542.4
62.5°	7388.9	7431.7	7400.0	7385.2	7374.9	7342.4	7258.6	7158.2	7007.5	6898.6	6738.6
65°	7686.6	7650.3	7615.9	7611.2	7608.4	7661.4	7673.5	7602.8	7466.1	7296.8	7112.6
67.5°	7339.6	7319.1	7321.0	7281.9	7306.1	7398.2	7462.4	7442.8	7317.3	7112.6	6878.2
70°	6513.5	6473.5	6514.5	6565.6	6601.9	6654.9	6719.1	6734.9	6620.5	6410.3	6171.2
72.5°	4877.2	4883.8	4922.8	4936.8	5082.8	5067.9	5125.6	4937.7	4854.9	4654.9	4532.1
75°	2566.5	2524.7	2633.5	2402.8	2307.9	2374.0	2188.9	2011.2	2048.4	2079.1	1857.7
77.5°	907.0	848.4	748.8	708.8	589.8	499.5	408.4	368.4	347.0	335.8	321.9
80°	651.2	669.8	649.3	600.9	510.7	409.3	322.8	254.9	218.6	199.1	186.0
82.5°	658.6	732.1	764.7	750.7	668.8	506.0	334.0	213.0	158.1	132.1	122.8
85°	353.5	387.0	372.1	313.5	281.9	168.4	115.3	77.2	65.1	59.5	54.9
87.5°	14.0	11.2	9.3	9.3	10.2	11.2	9.3	10.2	9.3	9.3	9.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°
0°	854.9	854.9	854.9	854.9	854.9	854.9	854.9	854.9	854.9	854.9	854.9
2.5°	857.7	857.7	857.7	856.7	854.9	850.2	845.6	841.9	839.1	836.3	832.6
5°	874.4	872.6	872.6	872.6	865.1	857.7	851.2	844.7	839.1	834.4	830.7
7.5°	902.3	901.4	897.7	896.7	891.2	879.1	871.6	860.5	854.0	847.4	845.6
10°	935.8	934.9	934.0	933.0	925.6	913.5	904.2	894.0	884.7	875.4	866.1
12.5°	974.9	974.0	973.0	970.2	967.4	960.9	950.7	939.5	928.4	908.8	898.6
15°	1023.3	1025.1	1023.3	1022.3	1020.5	1021.4	1014.9	999.1	981.4	956.3	934.9
17.5°	1087.4	1085.6	1084.7	1088.4	1087.4	1092.1	1090.2	1069.8	1042.8	1002.8	965.6
20°	1158.1	1158.1	1161.9	1164.7	1173.0	1185.1	1179.5	1154.4	1105.1	1049.3	1000.9
22.5°	1242.8	1244.7	1248.4	1246.5	1259.5	1279.1	1280.9	1245.6	1181.4	1104.2	1036.3
25°	1331.2	1333.0	1329.3	1334.9	1356.3	1384.2	1389.8	1339.5	1254.9	1154.4	1066.1
27.5°	1414.9	1416.8	1416.8	1424.2	1444.7	1492.1	1497.7	1441.9	1329.3	1198.1	1087.4
30°	1496.8	1504.2	1506.1	1507.9	1538.6	1604.7	1616.8	1535.8	1394.4	1230.7	1102.3
32.5°	1600.0	1602.8	1606.5	1611.2	1646.5	1727.5	1727.5	1616.8	1436.3	1251.2	1105.1
35°	1710.7	1711.6	1720.0	1720.9	1771.2	1852.1	1836.3	1683.7	1466.1	1246.5	1084.7
37.5°	1777.7	1781.4	1789.8	1800.9	1854.0	1968.4	1932.1	1741.4	1471.6	1215.8	1038.1
40°	1860.5	1867.9	1876.3	1887.5	1966.5	2086.5	2013.0	1777.7	1448.4	1155.4	968.4
42.5°	1949.8	1960.0	1973.0	1993.5	2087.5	2190.7	2074.4	1783.3	1395.4	1087.4	885.6
45°	2050.2	2068.8	2083.7	2107.9	2214.0	2280.9	2111.6	1750.7	1328.4	998.1	797.2
47.5°	2166.5	2181.4	2207.5	2233.5	2339.5	2342.3	2115.4	1687.5	1237.2	908.8	703.3
50°	2309.8	2319.1	2358.2	2374.0	2473.5	2406.5	2088.4	1601.9	1141.4	808.4	599.1
52.5°	2500.5	2513.5	2563.7	2587.9	2658.6	2494.0	2050.2	1508.8	1031.6	695.8	492.1
55°	2877.2	2934.0	2969.3	3011.2	3056.8	2692.1	2033.5	1409.3	907.9	565.6	389.8
57.5°	3934.9	3916.3	3994.4	4089.3	4088.4	3145.1	2134.0	1323.7	761.9	432.6	299.5
60°	5510.7	5528.4	5488.4	5545.2	5364.7	3707.0	2271.6	1233.5	597.2	321.9	228.8
62.5°	6681.9	6579.6	6522.8	6455.9	6058.6	3768.4	2171.2	1048.4	434.4	226.0	175.8
65°	6959.1	6839.1	6717.3	6589.8	5990.7	3397.2	1781.4	769.3	280.9	155.3	139.5
67.5°	6685.6	6493.1	6337.7	6206.5	5489.3	2815.8	1302.3	472.6	160.9	125.6	119.1
70°	5976.8	5763.8	5512.6	5365.6	4622.4	2075.4	834.4	254.9	123.7	111.6	108.8
72.5°	4374.9	4200.0	3925.6	3757.2	3319.1	1261.4	466.0	143.3	115.3	107.0	103.3
75°	1704.2	1613.0	1498.6	1507.9	1346.1	558.1	211.2	123.7	112.6	105.1	101.4
77.5°	293.0	285.6	264.2	264.2	300.5	203.7	140.5	124.7	111.6	103.3	96.7
80°	175.8	172.1	163.7	161.9	156.3	143.3	134.9	126.5	109.8	97.7	89.3
82.5°	115.3	110.7	107.9	107.0	116.3	125.6	126.5	125.6	104.2	84.7	72.6
85°	49.3	49.3	49.3	50.2	67.0	101.4	104.2	111.6	85.6	66.0	52.1
87.5°	8.4	10.2	10.2	11.2	12.1	22.3	27.9	36.3	28.8	27.9	25.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	165°	175°	180°
0°	854.9	854.9	854.9
2.5°	831.6	829.8	829.8
5°	828.8	827.0	827.9
7.5°	840.0	836.3	837.2
10°	860.5	856.7	854.9
12.5°	886.5	881.9	881.9
15°	913.5	902.3	901.4
17.5°	935.8	921.9	920.0
20°	960.9	942.3	939.5
22.5°	984.2	959.1	955.4
25°	1000.9	970.2	965.6
27.5°	1008.4	972.1	968.4
30°	1014.0	973.0	967.4
32.5°	1008.4	964.7	960.0
35°	977.7	930.2	927.4
37.5°	924.7	871.6	867.9
40°	854.9	799.1	789.8
42.5°	765.6	713.5	703.3
45°	679.1	619.5	614.9
47.5°	586.1	529.3	532.1
50°	488.4	437.2	436.3
52.5°	395.4	350.7	347.9
55°	311.6	280.0	277.2
57.5°	246.5	229.8	227.0
60°	200.9	192.6	189.8
62.5°	161.9	159.1	158.1
65°	134.9	134.9	134.9
67.5°	117.2	118.1	118.1
70°	107.9	108.8	107.9
72.5°	104.2	107.0	107.0
75°	101.4	103.3	99.5
77.5°	99.5	100.5	94.0
80°	98.6	97.7	85.6
82.5°	85.6	82.8	72.6
85°	78.1	59.5	50.2
87.5°	40.0	27.9	21.4
90°	0.0	0.0	0.0

(END OF REPORT)